



State of Utah

Department of Natural Resources

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Division of Oil, Gas & Mining

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May 8, 2006

CERTIFIED RETURN RECEIPT
7004 2510 0004 1824 3632

Carl Clyde
Geneva Rock Products, Inc.
1565 West 400 North
P.O. Box 538
Orem, Utah 84059

Subject: Second Review of Notice of Intention to Commence Large Mining Operations,
Geneva Rock Products, Inc., Point of the Mountain Quarry, Task # 634
M/035/026 , Salt Lake County, Utah

Dear Mr. Clyde:

The Division has completed a review of your response for the Point of the Mountain Quarry, received March 10, 2006. After reviewing the information, the Division has the following comments which need to be addressed before tentative approval may be granted.

The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion and address only those items requested in the attached technical review. Send replacement pages of the original notice **using redline and strikeout text** and indicate how these are to be incorporated into the current approved plan using the attached Form-MR-REV-att. After the notice is determined technically complete you will be asked to send us two clean copies of the complete and corrected plan; one copy will be returned. Please provide a response to this review by June 8, 2006.

If you have any questions concerning this review please contact me 538-5258, or Doug Jensen 538-5382 of the Minerals Staff. If you wish to meet and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

A handwritten signature in cursive script that reads "Susan M. White".

Susan M. White
Mining Program Coordinator
Minerals Regulatory Program

SMW:dj:pb

Attachment: Review

cc: Linda Mathews, JBR Environmental

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SECOND REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

**Geneva Rock Products, Inc.
Point of the Mountain**

**M/035/026
May 8, 2006**

R647-4-104 - Filing Requirements and Review Procedures

Ownership of the land surface is shown as 450 acres.

The introduction indicates that there is a total of 449 acres on the east side of I-15 and 29 acres on the west side. Please correct the plan for consistency. (DJ)

R647-4-105 - Maps, Drawings & Photographs

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

The text indicates that a representative pit plan cross-section is included in the submittal. There is no cross-section contained in the application. Please submit a minimum of one north-south cross-section and two to three east-west cross-sections. These cross-sections should show the surface before mining, after mining and after reclamation (phase 1 only). (DJ)

R647-4-106 - Operation Plan

106.2 Type of operations conducted, mining method, processing etc.

The first portion states that phases 2 thru 5 are conceptual only. Later in the section phase 2 thru 5 are discussed as if the plans for the phases are final. The description of phase 5 states that phase 5 should be considered as conceptual only.

If phases 2 thru 5 are conceptual only, please make that notation in any reference to these phases through out the plan. (DJ)

Under the Sand and Gravel heading the fines pond located on the west side of I-15 is 17 acres, the introduction states that 29 acres of pond is located on the west side of I-15. Under the Reclamation Fines Pond heading it states that Geneva Rock Products (GRP) has designated 26.4 acres for current and future fines storage, in the next paragraph the application states that 32.1 acres are defined for future storage of fines. The description continues with, and because this area will be used by both Point of Mountain (POM) and GRP sand and gravel operations approximately half the total acreage or 29 acres is included as a representative acreage with the permit areas.

Please make adjustments to these figures in the plan as necessary. (DJ)

Figure 2 has a dashed line around an area containing the maintenance shop, fuel farm and other facilities.

Please identify what this line designates. Is this the 16-acre mixed use area? (PBB)

- 106.3 Estimated acreages disturbed, reclaimed, annually.
The application states that at the end of phase 1 the pit floor will continue to be utilized for the operations related to phase 2.

Because at this time phase 2 is conceptual, this statement should indicate that the area may be reclaimed at that time if phase 2 is not mined. (DJ)

- 106.4 Nature of materials mined, waste and estimated tonnages
The final paragraph in this section says total production through the life of the mine is a maximum of 232,500,000 million cubic yards (=232,500,000,000,000 cubic yards). This appears to be an error; the actual figure is more likely to be 232.5 million cubic yards. (PBB)

- 106.5 Existing soil types, location, amount
The soil storage piles are shown on Figure 2.
Please state in the plan where this material will be used. If this material is scheduled to be used during the reclamation of the pit floor, please state how the material will be moved to that area. (DJ)

The soil stockpiles, including the proposed stockpile for current use, are all located above highwalls making it difficult for them to be used. In addition, the proposed stockpile is isolated topographically from most of the area that has yet to be mined which, it appears, would make it hard to salvage and place soil there. (PBB)

Please provide an estimate of how much soil might be salvaged and how many yards of fines will be available. How do these figures relate to the pit floor acreage? (PBB)

Although the plan says limited amounts of topsoil can be salvaged, it needs to show how this soil can be used (see first paragraph in this section). The variance section of the plan indicates available soil resources would be used in reclamation of the pit floor. Could the proposed stockpile be relocated closer to the pit floor and to other areas that have yet to be disturbed? Would it be better to build two new stockpiles, one in closer proximity to most of the new area to be disturbed (south of the fence that will be built in 2006)? Are there ways of using the soil on the highwall, even cascading it over the first few benches? (PBB)

- 106.6 Plan for protecting & redepositing soils
The plan says topsoil piles will be seeded to control erosion. Once seeded, the storage piles should be checked and remedial action taken if necessary to ensure desirable vegetation becomes established and that the topsoil piles do not become a source of weeds on reclaimed areas. (PBB)

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Topsoil stockpiles will be seeded per Division recommendations (unless these stockpiles are not proposed for use during a growing season). Stockpiles constructed in the fall should be seeded as soon as possible with a semi-permanent seed mix. Stockpiles constructed at other times should be immediately seeded with an annual grain, such as winter barley, then reseeded with the semi-permanent mix in the fall. Please include this commitment in the plan. (PBB)

The seed mix to be used needs to be included in the plan and should be based on the results of sampling those areas that have been revegetated. (PBB)

106.7 Existing vegetation - species and amount

The plan says the operator will assess the vegetation cover in the spring of 2006 in revegetated areas to provide cover data for future reclamation success standards, and that this data will be included in Appendix D. Please evaluate and verify whether there are any areas--even just a few acres--near the mine that are not infested with weeds and that could be used for judging revegetation success. If not, the Division will consider using the reclaimed area as a standard but only after looking at this area to confirm the degree of revegetation success. (PBB)

106.9 Location & size of ore, waste, tailings, ponds

This portion of the submittal states that the phase 5 pit would create an impoundment and a variance is being requested.

Because phase 5 is currently conceptual, there is no need to consider a variance at this time. (DJ)

R647-4-109 - Impact Assessment

109.4 Slope stability, erosion control, air quality, safety

Please clarify the wording in the Slope Stability section of this submittal. The portion requiring clarification is "the small particles of highly fractured materials are expected to BREAD off over time.

Please clarify this word usage. (DJ)

The submittal states that the permitted emissions at POM are included in Table 6.

The permitted emission levels for the site are shown in Table 5. There are two Table 5s in the plan. Please correct this reference. (DJ)

R647-4-110 - Reclamation Plan

110.1 Current & post mining land use

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This section of the plan states that the reclamation and surety are based on the scenario that GRP mining ends at the end of phase 1. Section 110.2 states that all support facilities and equipment for mining would be left in place at the end of mining of phase 1. Please review these statements and make them agree on the stated outcome of the mining.

And include a sufficient amount to remove these facilities and reclaim the areas associated with these areas in the surety estimate. (DJ)

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

The plan states that a reclaimed road spur is shown on Figure 7.

There is no reclaimed road spur shown on Figure 7, please add this feature to this map and include a line item in the surety estimate for the reclamation of this feature. (DJ)

110.5 Revegetation planting program

The plan states that a dozer or scraper will spread the growth medium.

Dozers and scrapers can be used to spread this material but the material will need to be hauled to the site from the west side of I-15. A fleet of trucks and several loaders will be needed to transfer this material to the site before it can be spread. Please add the additional equipment and costs to the surety estimate. (DJ)

The plan previously said composted manure would be applied at the rate of 5 tons per acre, but it now says a mixture of fines, topsoil, and organics will be used.

Please state what type of organic material would be used and at what rate. (PBB)

The seed mixture to be used in final reclamation will be based on results of previous revegetation efforts and reconnaissance of nearby areas.

These results will need to be included in the plan once these areas have been examined. (PBB)

R647-4-111 - Reclamation Practices

111.12 Topsoil redistribution

See comments under Section 110.5 (DJ)

R647-4-112 - Variance

Impoundments

A variance is requested to Rule R647-4-111.9 Impoundments

It is stated that this variance is necessary because the final pit configuration will form a topographic low with no external drainage.

This permit is being reviewed in the realm of Phase 1 mining only, which is capable of self-draining. The plan states phases 2 thru 5 are conceptual only. Until the mine plans for these phases are submitted to the Division for review the need for a variance to this rule is not necessary at this time. (DJ)

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Soils

The plan requests a variance for distributing topsoil where it is not practical, such as highwall benches. Please show what alternatives to distributing topsoil would be used and how these alternatives are consistent with the act. (PBB)

Revegetation

Highwall benches would not be seeded, according to the plan, because they would be impractical to reclaim and would fill in with spall.

The Division disagrees with the practicality of seeding the benches: even if traditional broadcast seeding is impossible, aerial seeding is a commonly used seeding method. For the Division to approve a variance to the seeding requirements, the plan needs to show what alternative methods would be used to attain the goal of adequate vegetation cover. (PBB)

R647-4-113 – Surety

Section 9.1 Clean up and Removal of Structures

A portion of Section 110.1 states that the reclamation and surety are based on the scenario that GRP mining ends at the end of phase 1. All process facility buildings including the concentrator would be dismantled and disposed of off site. All tanks, containers, etc. associated with the processing system would be removed from the site including chemicals, wastes or other materials they may contain. Any remaining concrete in the vicinity of the processing facilities would be broken up and buried on site covered with 3 to 5 feet of fill prior to topsoil application. These areas would be graded to blend with adjacent surroundings prior to topsoil application.

These items are not contained in the clean up and removal of structures portion of the surety. Please add these activities to the surety estimate correspond to the demolition and removal of these structures and regrading of those areas. (DJ)

This portion of the surety states that the concrete and asphalt piles will be spread out and covered with soil and seeded. Because the depth of the growth medium placement is only 6", this material will need to be buried sufficiently to assure that ripping prior to seeding will not bring it to the surface. Please include in the application that any material left in these piles, at closure, will be buried a minimum of 3 to 4 feet and include the activity in the surety estimate. (DJ)

Backfilling, grading and contouring portion states that a maximum of 171 acres would be regraded. Does this 171-acre area include the process facilities mentioned above, if not please include this additional area. (DJ)

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Section 9.5 General Site Clean up

Crane rental is shown in the application estimate as \$960/day

The Means cost for a 55-ton crane is \$1046.50/day with an additional cost for an operator of \$57.50/hr.

The cost for clean up should also include a cost of \$42.65/hr for laborers. A minimum of 3 laborers should be included in the surety to assist with the clean up and loading of equipment. (DJ)

Section 9.8 Revegetation – Pit Floor

Topsoil fines costs seem to include only a cost to spread the material. Because at the end of phase 1 no growth medium will be available, this material will need to be hauled to the site from the reclamation fines area which is located west of I-15.

Means cost for moving this material ~4 miles round trip is \$4.13/cy (Means 2315-490-1240)

Means cost for spreading the material should be \$1.62/cy not \$1.39 as shown.

Please adjust the surety to reflect the adjustment to these cost figures. (DJ)

Ripping costs shown in the estimate is shown at \$367/ac

The rental cost for a D11 dozer is \$400/hr, an operating cost of \$158.50/hr and an operator cost of \$57.50/hr. The production rate for a D11 dozer is .61 acres/hr. The cost to rip the site should be shown as \$1010/acre. Please adjust the surety to show these costs. (DJ)

Section 9.9 Revegetation – Asphalt and Concrete Area

A cost to spread these piles is shown in the estimate.

The cost shown should be for the burial of this material a minimum of 3 to 4 feet. Please add this cost to the estimate. (DJ)

The surety estimate should include a cost to rip these areas prior to seeding. (DJ)

The escalation rate for 2006 is now 1.6%

Please correct this figure in the surety estimate. (DJ)

R647-4-115 - Confidential Information

No confidential information was included in this application.